

Title (en)

BIMODAL IGNITER AND INJECTION METHOD FOR A ROCKET ENGINE IGNITER

Title (de)

BIMODALER ZÜNDER UND EINSPRITZVERFAHREN FÜR EINEN RAKETENTRIEBWERKSZÜNDER

Title (fr)

ALLUMEUR BIMODAL ET PROCEDE D'INJECTION BIMODALE POUR ALLUMEUR DE MOTEUR-FUSEE

Publication

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Application

EP 13762172 A 20130813

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Abstract (en)

[origin: WO2014029937A1] The present invention relates to a bimodal igniter and to a bimodal injection method for an igniter that are suitable for starting a rocket engine both in a low-pressure setting and in a high-pressure setting. According to the invention, said igniter includes a supply (21) of a first propellant (A), a supply (31) of a second propellant (B), a supply (41) of a high-pressure fluid (F), a first buffering vessel (22), a second buffering vessel (32), a first switching device (50), a second switching device (60), and a torch combustion chamber (10); an opening downstream from the first buffering vessel (22) and an opening downstream from the second buffering vessel (32) lead into the combustion chamber (10); the first switching device (50) and the second switching device (60) are configured to connect an opening upstream from the first buffering vessel (22) and an opening upstream from the second buffering vessel (32), respectively, to either the supply (21) of a first propellant (A) and to the supply (31) of a second propellant (B), respectively, or to the supply (41) of high-pressure fluid (F).

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